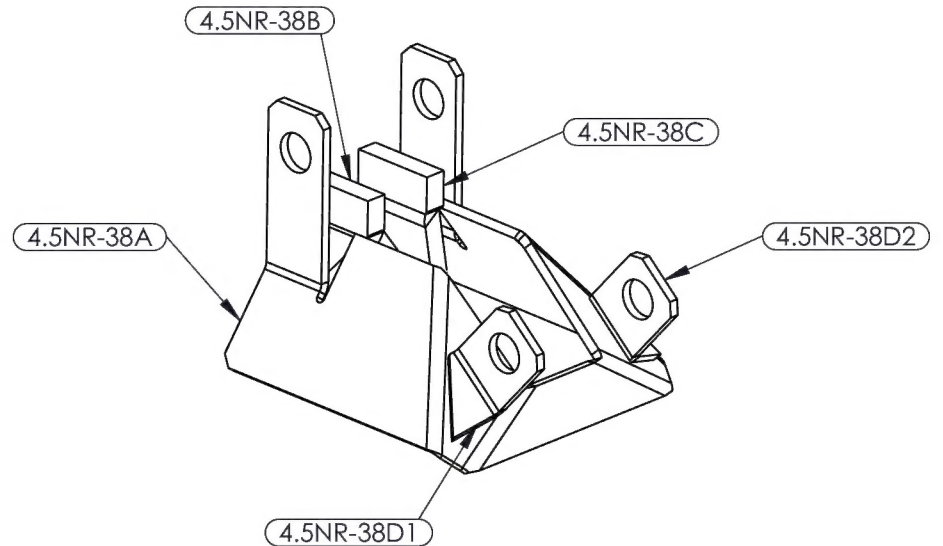
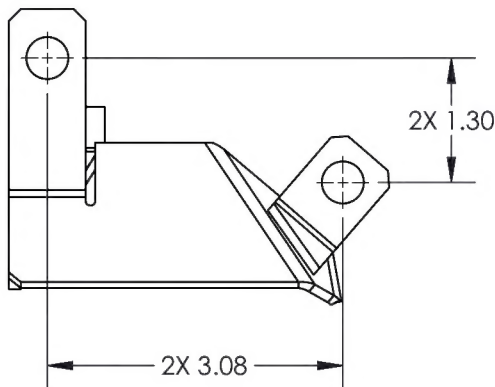
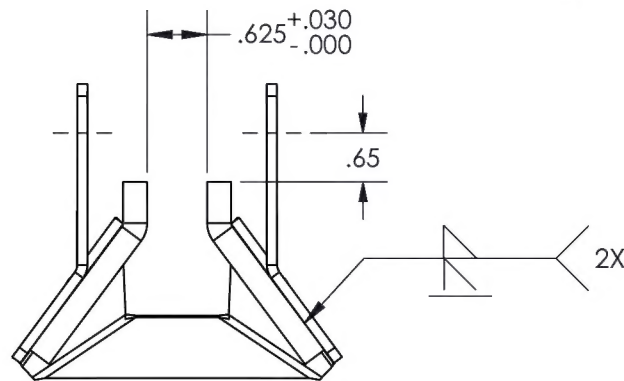
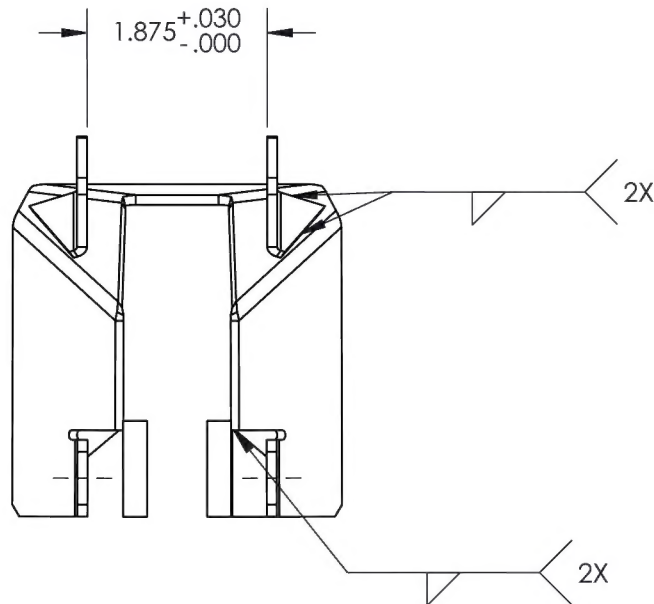


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A	14-0095	CH'D TITLE BLOCK WAS RED BARN IS DART. ADDED NOTE.	7/28/2014	DPD	RW
1	15-0019	UPDATED TO NEW DRAFTING STANDARDS. ADDED NICKEL PLATE FINISH. ADDED WELD FIXTURE NOTE. <b>4.5NR-38A, 4.5NR-38B, 4.5NR-38C, 4.5NR-38D1, 4.5NR-38D2</b> CH'D MAT'L WAS 303 IS 1006-1026. CH'D DIM WAS (.094) IS (.090). <b>-38A</b> UPDATED DIMENSIONING.	1/22/2015	DPD	JAG
2	15-0082	CH'D FINISH REMOVED BAKE AFTER PLATING REQUIREMENT. <b>4.5NR-38A</b> CH'D DIM WAS (.090) IS .11. <b>4.5NR-38D1, 4.5NR-38D2</b> CH'D DIMS WAS (.090) IS .11, WAS .45 IS .55, WAS 1.500 IS 1.600, WAS 1.038 IS 1.138.	5/12/2015	DPD	JAG



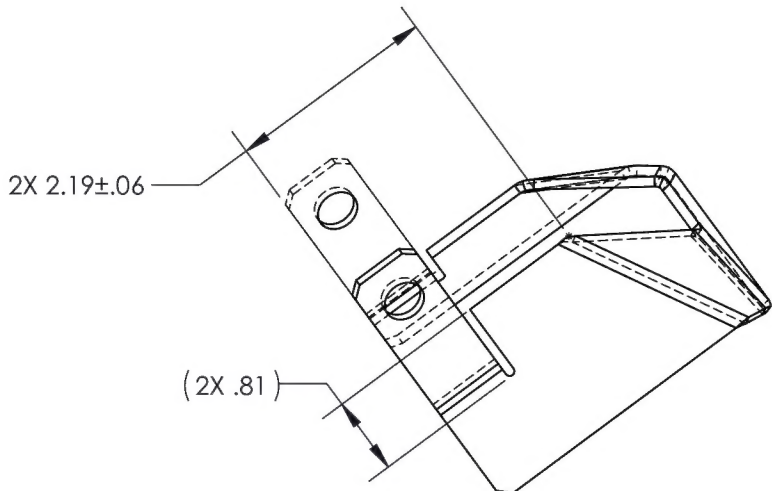
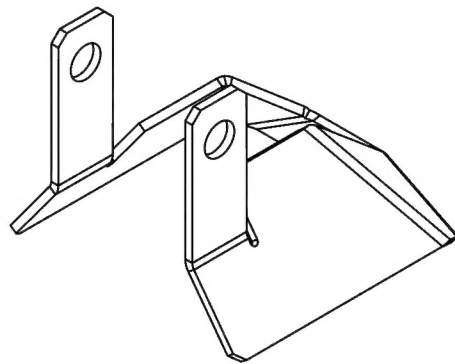
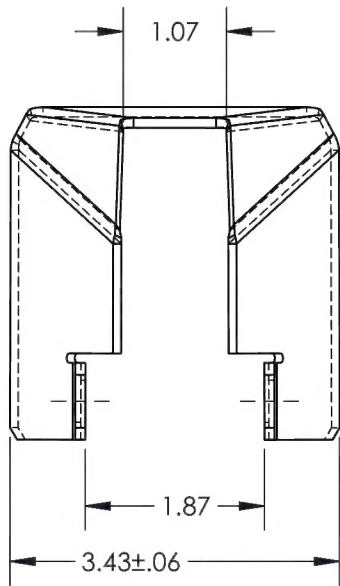
- NOTES:
1. NICKEL PLATE .0004 - .0006.
  2. USE WELD FIXTURE: 4.5NR-38-F
  3. BAG & LABEL WITH BATCH NUMBER.

<b>DART</b> AEROSPACE	
TITLE <b>FUNNEL SUB-ASSEMBLY</b>	
DWG NO. <b>4.5NR-38</b>	REV <b>2</b>
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 .XX ± .03 .X ± .1 FRACTIONS ± 1/8 ANGLES ± 5°	DRAWN BY: CANAM APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:2	DATE 9/20/2001
SHEET 1 OF 6	

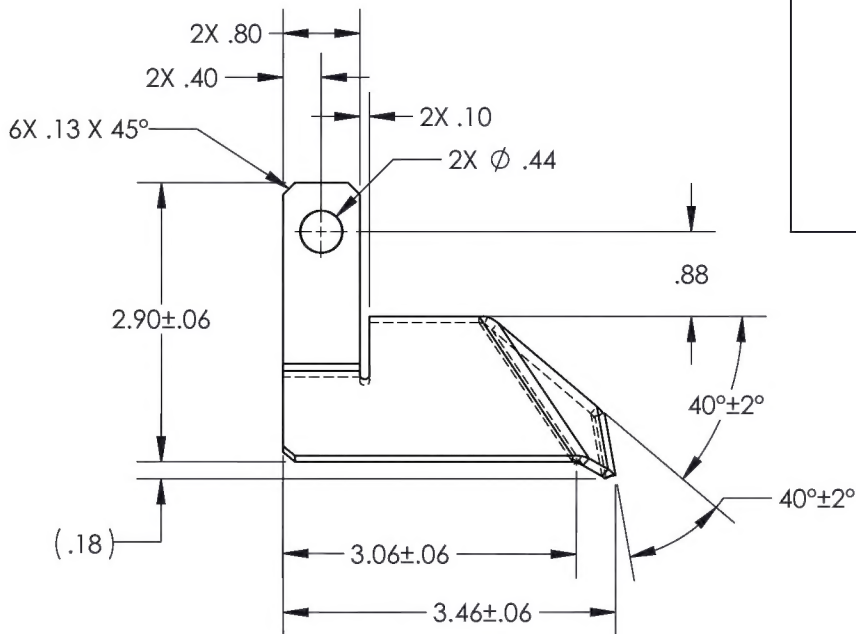
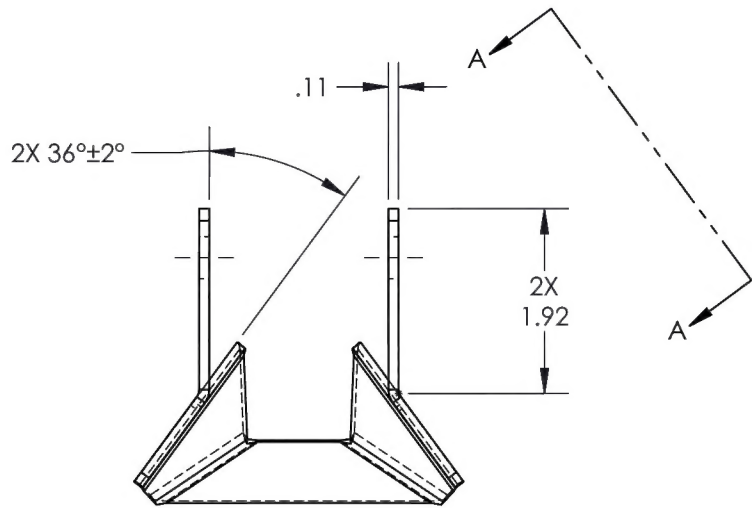
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			4.5NR-38A	1	FUNNEL	1006-1026	(MCMaster-CARR #6544K59)	2
			4.5NR-38B	1	ANGLE	1006-1026		3
			4.5NR-38C	1	ANGLE	1006-1026		4
			4.5NR-38D1	1	BRACKET	1006-1026	(MCMaster-CARR #6544K59)	5
			4.5NR-38D2	1	BRACKET	1006-1026	(MCMaster-CARR #6544K59)	6

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	15-0019	-38A CH'D MAT'L WAS 303 IS 1006-1026. UPDATED DIMENSIONING.	1/22/2015	DPD	JAG
2	15-0082	4.5NR-38A CH'D DIM WAS (.090) IS .11.	5/12/2015	DPD	JAG

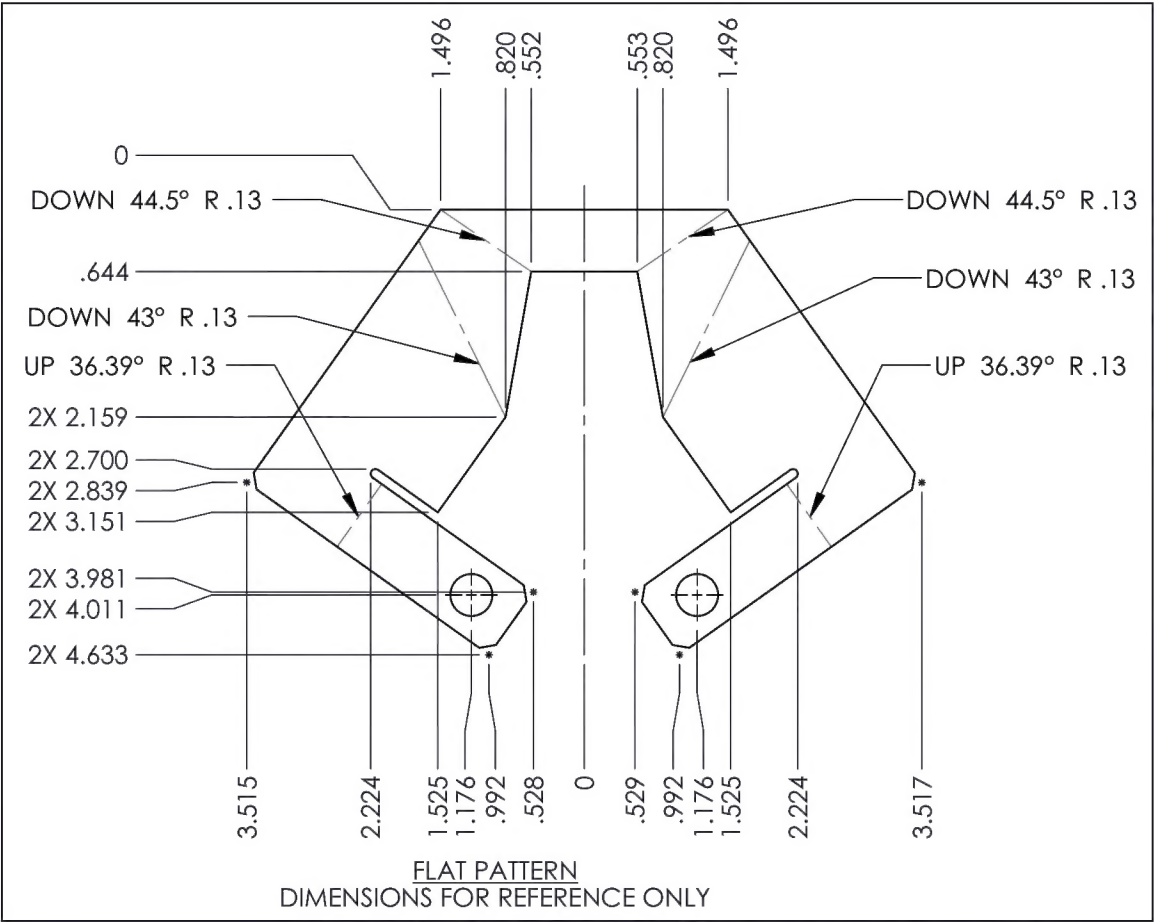


VIEW A-A



4.5NR-38A

FUNNEL

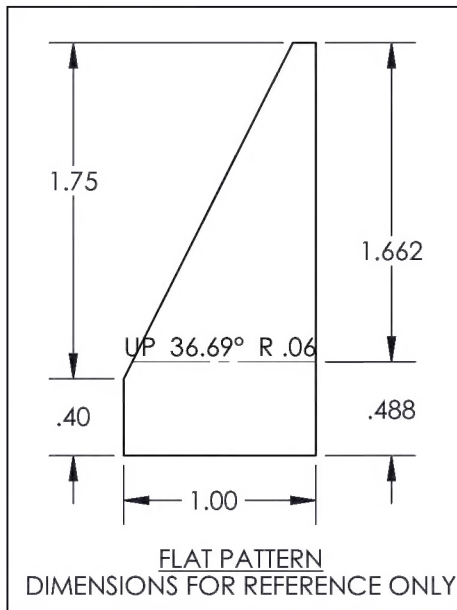
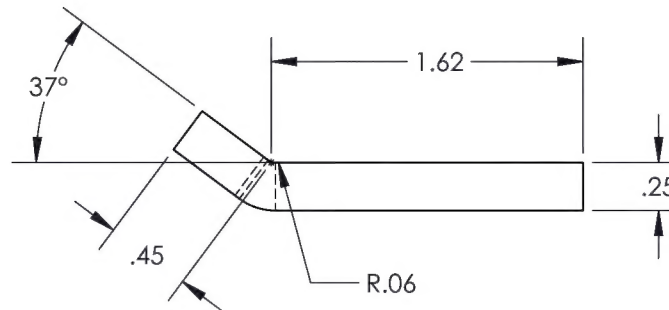
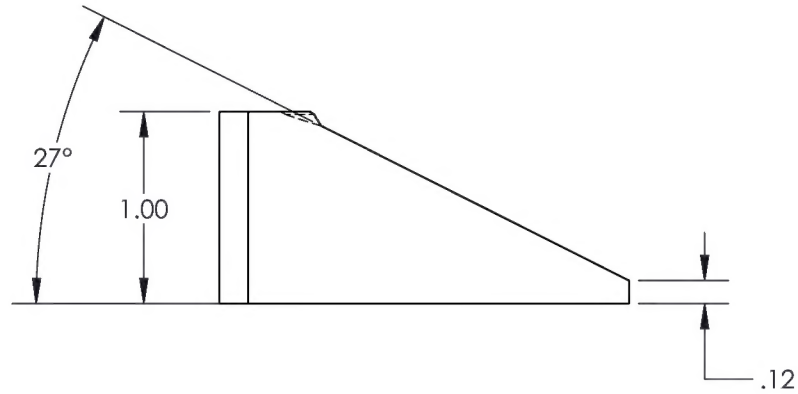


FLAT PATTERN  
DIMENSIONS FOR REFERENCE ONLY

DART AEROSPACE			
TITLE FUNNEL SUB-ASSEMBLY			
DWG NO. 4.5NR-38A			REV 2
MAT'L 1006-1026		DRAWN BY: CANAM	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .010 FRACTIONS ± 1/8		HEAT TREAT	
.XX ± .03 ANGLES ± 5°		FINISH	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING			
SCALE 1:2	DATE 12/23/1997	SHEET 2 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	15-0019	4.5NR-38B CH'D MAT'L WAS 303 IS 1006-1026.	1/22/2015	DPD	JAG



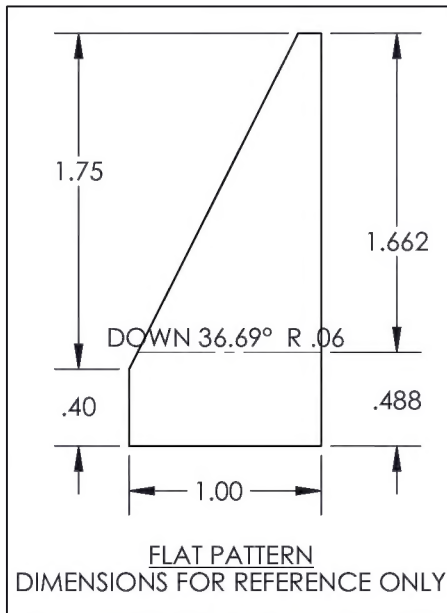
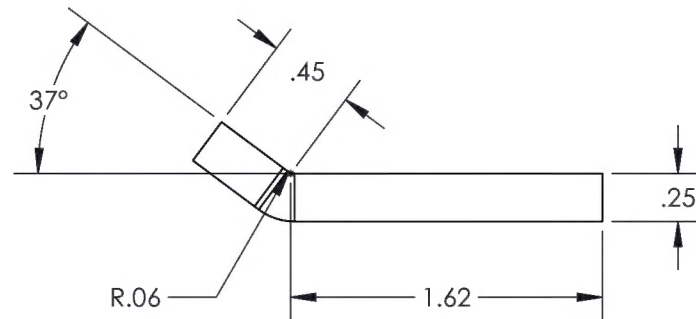
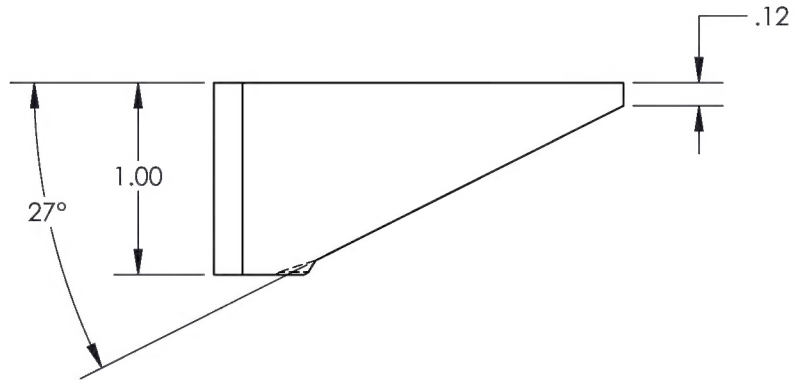
4.5NR-38B

ANGLE

<b>DART AEROSPACE</b>	
TITLE <b>FUNNEL SUB-ASSEMBLY</b>	
DWG NO. <b>4.5NR-38B</b>	REV <b>2</b>
MAT'L 1006-1026	DRAWN BY: CANAM
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT
.XX ± .03 ANGLES ± .5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:1	DATE 12/23/1997
SHEET 3 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	15-0019	4.5NR-38C CH'D MAT'L WAS 303 IS 1006-1026.	1/22/2015	DPD	JAG



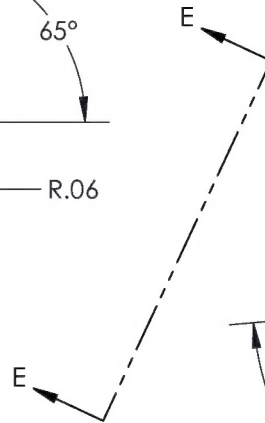
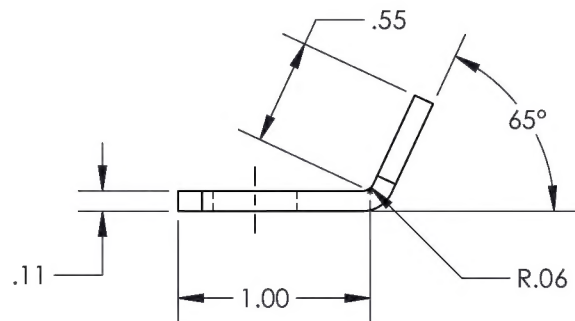
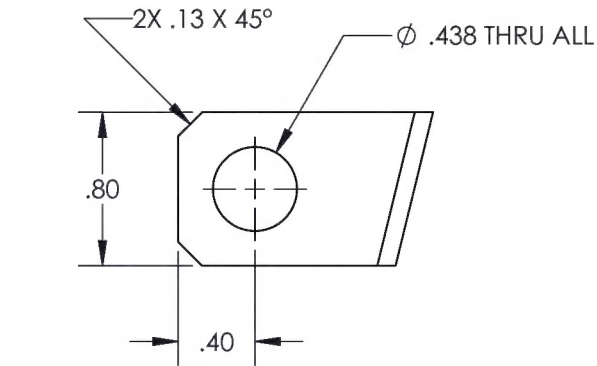
4.5NR-38C

ANGLE

<b>DART</b> AEROSPACE	
TITLE <b>FUNNEL SUB-ASSEMBLY</b>	
DWG NO. <b>4.5NR-38C</b>	REV <b>2</b>
MAT'L 1006-1026	DRAWN BY: CANAM
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT
.XX ± .03 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:1	DATE 12/23/1997
SHEET 4 OF 6	

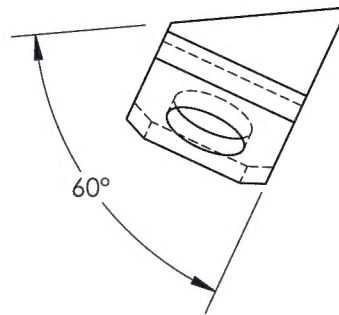
This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	15-0019	4.5NR-38D1 CH'D MAT'L WAS 303 IS 1006-1026. CH'D DIM WAS (.094) IS (.090).	1/22/2015	DPD	JAG
2	15-0082	4.5NR-38D1 CH'D DIMS WAS (.090) IS .11, WAS .45 IS .55, WAS 1.500 IS 1.600, WAS 1.038 IS 1.138.	5/12/2015	DPD	JAG

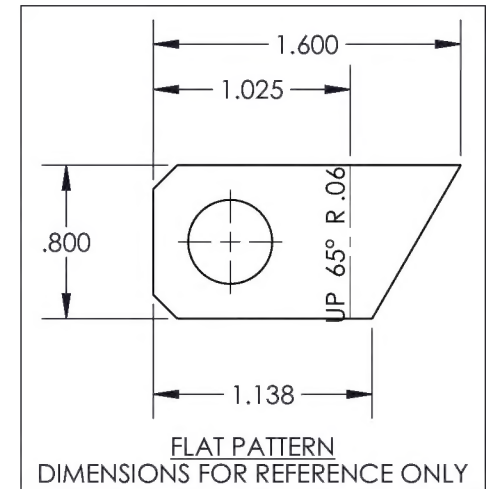
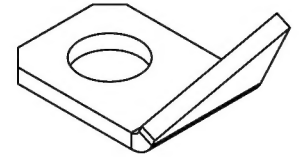


4.5NR-38D1

BRACKET



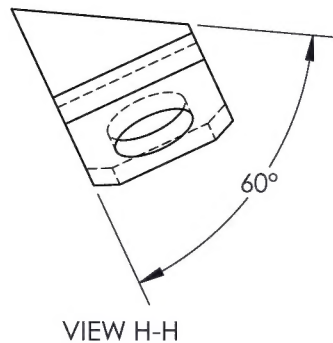
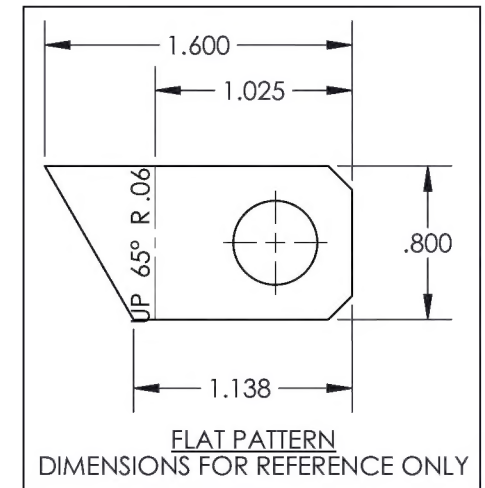
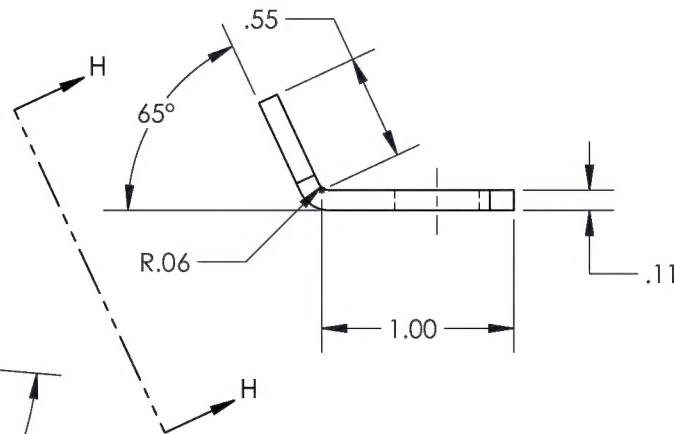
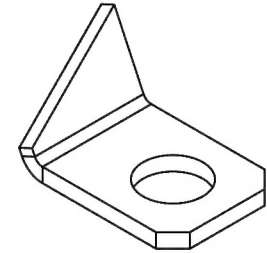
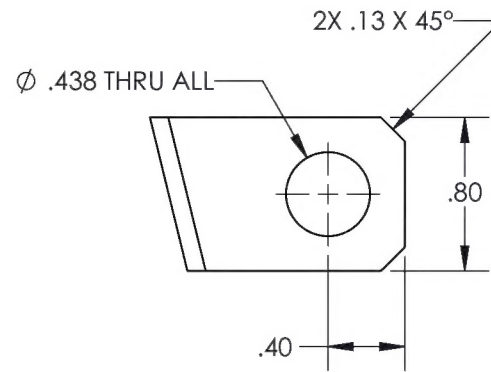
VIEW E-E



<b>DART</b> AEROSPACE	
TITLE <b>FUNNEL SUB-ASSEMBLY</b>	
DWG NO. <b>4.5NR-38D1</b>	REV <b>2</b>
MAT'L 1006-1026	DRAWN BY: CANAM
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010	HEAT TREAT
.XX ± .03	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 12/23/1997
SHEET 5 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	15-0019	4.5NR-38D2 CH'D MAT'L WAS 303 IS 1006-1026. CH'D DIM WAS (.094) IS (.090).	1/22/2015	DPD	JAG
2	15-0082	4.5NR-38D2 CH'D DIMS WAS (.090) IS .11, WAS .45 IS .55, WAS 1.500 IS 1.600, WAS 1.038 IS 1.138.	5/12/2015	DPD	JAG



VIEW H-H

4.5NR-38D2

BRACKET

<b>DART</b> AEROSPACE	
TITLE <b>FUNNEL SUB-ASSEMBLY</b>	
DWG NO. <b>4.5NR-38D2</b>	REV <b>2</b>
MAT'L 1006-1026	DRAWN BY: CANAM
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 12/23/1997
SHEET 6 OF 6	